



Rec'd PCT/PTO 03 OCT 2005

SEQUENCE LISTING

<110> National Research Council of Canada

<120> PROTEIN CONTAINING A BURP DOMAIN

<130> PAT 753W-2

<140> US 10/522,894

<141> 2003-08-01

<150> US 60/400,836

<151> 2002-08-02

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<170> PatentIn version 3.1

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ccgtcaatga	aacaccccttcc	cgtcaagccg	acgacgccta	taagtacctc	2040
attatcactc	ccaagacta	caacctctcg	acctctcacc	tagcgcacat	2095

<210> 35
 <211> 246
 <212> DNA
 <213> *Triticum aestivum*

<400> 35

atggcgcgct	tcctcgatcg	cctcctcgct	gccaccctgg	tcgcgggtca	ggctggaggg	60
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cagctgggcc acgcagcgcc ggcgacggcg gaggtgttct ggccgcggcgt gctgccgcac 120
tcgcccattgc ccgacgcgcgt tctccgcctc ctc aaacaac ctgcagcagg tgttgaactg 180
cacacagaag ccaccagctt cgtaagagac cccgaggaca ggccccccctt cgactaccgt 240
qattac 246

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<210> 36
<211> 441
<212> DNA
<213> Triticum aestivum
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<400> 36

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gccactgagc aacgcctgca tcttctttat tttggcaaac tggtgctaac ggccaatact	120
gccgcttgcg ttacgtctca ggttcaggct ggagggcagc tggccacgc agcgcggcg	180
acggcggagg tggcttctggcg cgccgtgctg ccgcactcgc cattgcccga cgccgttctc	240
cgccctcctca aacaacactgc agcaggtctg tcttgcatgt tcctcgtcgc cctccgttaa	300
ctgtcttctt ctctcgagtt tgattgatca ccaaacacaa aaatgcatgc acgcgtacgc	360
gttaggtttg aactgcacac agaagccacc agttcgtaa gagaccccga ggacaggccc	420
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<210> 37
<211> 1301
<212> DNA
<213> *Oryza sativa*

<400> 37

<210> 38

<211> 1479
<212> DNA
<213> Oryza sativ

<400> 38

<210> 39
<211> 1461
<212> DNA
<213> *Oryza sativa*

<400> 39

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acactatgtt atgagaaaaca cctcacatcc gtccataacc gtgggcatga ctatttaaaa 120
agtttaacta aactctacaa aagttgcacg ctttaccac acgtcatgaa cgtttcacat 180
taccgaatac atgtggatcg gacatggccg acaaaggaga gttaatacaca aggctttcc 240
ataaccaatc cataaataatc ctatgtccca cggttgggtg gaatctctcc accaaacatc 300
aagccaggat caggtcctca tctaccatg ccccactcca tggactccga cacatcccc 360
ctgcaggaga ttgccatata cgccaccata ccagtgcctc tcaaccgcta acatgttgg 420
caccaaattc tatatactta tatagttcat ctccactaag ttagttaat tacatttctc 480
tcttcctca ttaagccaca tcacctcaat tatttttagc ctttagatga tagatctatg 540
gtccaaattg tcttttctt cttctctctt aaaaacatgc aatcttaaat acttttaggc 600
tcaaaattgt atcaaattgt tttagtttg tacatattat gcaacttaat tttcgcgcgc 660
aacgcggagg ggtatttcat cttagtattat ttaagagcta tacacactgc tataggggaa 720
aaaaaagata gtttggccc cctggtcagt cctgttgcac ggctatatgt tgaaggaaaa 780
aagccagtac gttttaggtt ttgtttttt tttagaattt ctaaaaagtt gtggcatgtt 840
ttttagtaa aagcctttaa atataagttt cattgttaact acagtgttaat tccgctgttaa 900

ctatattgtat	atctctat	aagttagata	taaaattaca	tatattat	tttaataactt	960
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aaattccccc	catgcaaccc	gcgtccggcc	gtccttcgtg	ccaacaggca	acagcgcggc	1200
gccggcgaac	gtcaccccc	agattatatt	ccccctctcg	cgctcgcgcg	cgccgcgacg	1260
tcgtcggagc	caacattatt	tttctgttgc	ctgtcaccgt	cgccgttgat	ctcaagcgag	1320
atttgagggtt	tggccacgac	gacgcctgcc	tataaatacc	aggtgggtgt	caccgcccgg	1380
cggcgtcgat	cgatccgtcg	cagtcgtctc	cggcgagaaa	tcggctcgcgc	cccgctctc	1440
tctctctcgat	acgctccat	9				1461

<210> 40
 <211> 389
 <212> PRT
 <213> *Triticum aestivum*

<400> 40

Met	Ala	Arg	Phe	Leu	Val	Ala	Leu	Leu	Ala	Thr	Thr	Leu	Val	Ala	Val
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Gln	Ala	Gly	Gly	Gln	Leu	Gly	His	Ala	Ala	Pro	Ala	Thr	Ala	Glu	Val
					20				25						30
Phe	Trp	Arg	Ala	Val	Leu	Pro	His	Ser	Pro	Leu	Pro	Asp	Ala	Val	Leu
				35				40							45
Arg	Leu	Leu	Lys	Gln	Pro	Ala	Ala	Gly	Val	Glu	Leu	Leu	Thr	Glu	Ala
				50				55							60
Thr	Ser	Phe	Val	Arg	Asp	Ala	Glu	Asp	Arg	Pro	Pro	Phe	Asp	Tyr	Arg
				65				70				75			80
Asp	Tyr	Ser	Arg	Ser	Pro	Pro	Asp	Asp	Glu	Pro	Ser	Lys	Ser	Thr	Gly
				85				90							95
Ala	Ala	Ser	Gly	Ala	Arg	Asp	Phe	Asp	Tyr	Asp	Asp	Tyr	Ser	Gly	Gly
				100				105							110
Asp	Lys	Leu	Arg	Gly	Ala	Ala	Ser	Gly	Ala	Arg	Asp	Phe	Asp	Tyr	Asp
				115				120							125
Asp	Tyr	Ser	Gly	Ala	Asp	Lys	Leu	Arg	Gly	Ala	Thr	Asp	Glu	Tyr	Lys
				130				135							140
Ala	Pro	Ser	Ser	Ser	Leu	Ala	Gly	Asn	Gly	Ala	Ser	Met	Ala	Arg	Gly
				145				150				155			160
Gly	Lys	Ala	Glu	Thr	Thr	Thr	Val	Phe	Phe	His	Glu	Glu	Ala	Val	Arg
				165				170							175
Val	Gly	Lys	Arg	Leu	Pro	Phe	Arg	Phe	Pro	Pro	Ala	Thr	Pro	Ala	Ala
				180				185							190
Leu	Gly	Leu	Pro	Arg	Gln	Val	Ala	Asp	Ser	Val	Pro	Phe	Thr	Thr	
				195				200							205
Ala	Ala	Leu	Pro	Gly	Val	Leu	Ala	Thr	Phe	Gly	Val	Ala	Ser	Asp	Ser
				210				215							220
Ala	Thr	Val	Ala	Ser	Met	Glu	Ala	Thr	Leu	Arg	Ala	Cys	Glu	Ser	Pro
				225				230				235			240
Thr	Ile	Ala	Gly	Glu	Ser	Lys	Phe	Cys	Ala	Thr	Ser	Leu	Glu	Ala	Leu
				245				250							255
Val	Glu	Arg	Ala	Met	Glu	Val	Leu	Gly	Thr	Arg	Asp	Ile	Arg	Pro	Val
				260				265							270
Thr	Ser	Thr	Leu	Pro	Arg	Ala	Gly	Ala	Pro	Leu	Gln	Thr	Tyr	Thr	Val
				275				280							285

Arg Ser Val Arg Pro Val Glu Gly Gly Pro Val Phe Val Ala Cys His
 290 295 300
 Asp Glu Ala Tyr Pro Tyr Thr Val Tyr Arg Cys His Thr Thr Gly Pro
 305 310 315 320
 Ser Arg Ala Tyr Met Val Asp Met Glu Gly Ala Arg Gly Gly Asp Ala
 325 330 335
 Val Thr Ile Ala Thr Val Cys His Thr Asp Thr Ser Leu Trp Asn Pro
 340 345 350
 Glu His Val Ser Phe Lys Leu Leu Gly Thr Lys Pro Gly Gly Thr Pro
 355 360 365
 Val Cys His Leu Met Pro Tyr Gly His Ile Ile Trp Ala Lys Asn Val
 370 375 380
 Asn Arg Ser Pro Ala
 385

<210> 41
 <211> 362
 <212> PRT
 <213> Triticum aestivum

<400> 41

Met Ala Arg Phe Leu Val Ala Leu Leu Ala Ala Thr Leu Val Ala Val
 1 5 10 15
 Gln Ala Gly Gly Gln Leu Gly His Ala Ala Pro Ala Thr Gly Glu Val
 20 25 30
 Phe Trp Arg Ala Val Leu Pro His Ser Pro Leu Pro Asp Ala Val Leu
 35 40 45
 Arg Leu Leu Lys Gln Pro Ala Ala Glu Ser Thr Ser Phe Val Arg Asp
 50 55 60
 Pro Glu Asp Arg Pro Pro Phe Asp Tyr Arg Asp Tyr Ser Arg Ser Ser
 65 70 75 80
 Ser Asp Asp Glu Pro Ser Lys Ser Thr Val Ala Ala Ser Gly Ala Gly
 85 90 95
 Gly Phe Asp Tyr Asp Asn Tyr Ser Gly Ala Asp Glu Arg Arg Gly Ala
 100 105 110
 Thr Asp Glu Tyr Lys Ala Pro Ser Ser Ser Leu Ala Gly Ser Gly Ala
 115 120 125
 Tyr Met Ala Arg Gly Gly Lys Ala Glu Thr Thr Thr Val Phe Phe His
 130 135 140
 Glu Glu Ala Val Arg Val Gly Arg Arg Leu Pro Phe His Phe Pro Pro
 145 150 155 160
 Ala Thr Pro Ala Ala Leu Gly Phe Leu Pro Arg Gln Val Ala Asp Ser
 165 170 175
 Val Pro Phe Thr Thr Ala Ala Leu Pro Gly Ile Leu Ala Thr Phe Gly
 180 185 190
 Ile Ala Ser Asp Ser Thr Thr Val Pro Ser Met Glu Ala Thr Leu Arg
 195 200 205
 Ala Cys Glu Ser Pro Thr Ile Ala Gly Glu Ser Lys Phe Cys Ala Thr
 210 215 220
 Ser Leu Glu Ala Leu Val Glu Arg Ala Met Gly Val Leu Gly Thr Arg
 225 230 235 240
 Asp Ile Arg Pro Val Thr Ser Thr Leu Pro Arg Ala Gly Ala Pro Leu
 245 250 255

Gln Thr Tyr Thr Val Val Ala Val Gln Pro Val Glu Gly Gly Pro Val
 260 265 270
 Phe Val Ala Cys His Asp Glu Ala Tyr Pro Tyr Thr Val Tyr Arg Cys
 275 280 285
 His Thr Thr Gly Pro Ser Arg Ala Tyr Thr Val Asp Met Glu Gly Ala
 290 295 300
 Arg Gly Ala Asp Ala Val Thr Ile Ala Ala Val Cys His Thr Asp Thr
 305 310 315 320
 Ser Leu Trp Asn Pro Glu His Val Ser Phe Lys Leu Leu Gly Thr Lys
 325 330 335
 Pro Gly Gly Thr Pro Val Cys His Leu Met Pro Tyr Gly His Ile Ile
 340 345 350
 Trp Ala Lys Asn Val Lys Arg Ser Pro Ala
 355 360

<210> 42
 <211> 82
 <212> PRT
 <213> Triticum aestivum

<400> 42

Met Ala Arg Phe Leu Val Ala Leu Leu Ala Ala Thr Leu Val Ala Val
 1 5 10 15
 Gln Ala Gly Gly Gln Leu Gly His Ala Ala Pro Ala Thr Ala Glu Val
 20 25 30
 Phe Trp Arg Ala Val Leu Pro His Ser Pro Leu Pro Asp Ala Val Leu
 35 40 45
 Arg Leu Leu Lys Gln Pro Ala Ala Gly Val Glu Leu His Thr Glu Ala
 50 55 60
 Thr Ser Phe Val Arg Asp Pro Glu Asp Arg Pro Pro Phe Asp Tyr Arg
 65 70 75 80
 Asp Tyr

<210> 43
 <211> 412
 <212> PRT
 <213> Oryza sativa

<400> 43

Met Ala Arg Phe Leu Leu Leu Val Ala Val Ala Ala Ala Ala Ala
 1 5 10 15
 Val Leu Ser Leu Gly Asp Ala Ala Pro Ser Thr Ala Glu Val Phe Trp
 20 25 30
 Arg Ala Val Leu Pro Glu Ser Pro Leu Pro Asp Ala Phe Leu Arg Leu
 35 40 45
 Leu Arg Pro Asp Thr Ser Phe Val Val Gly Lys Ala Glu Ala Ala Gly
 50 55 60
 Gly Ala Ala Arg Thr Gly Phe Pro Phe Asp Tyr Thr Asp Tyr Arg Gly
 65 70 75 80

Ser Asp Ser Pro Thr Thr Ala Ser Gly Leu Asp Leu Ala Gly Asp Phe
85 90 95
Gly Glu Pro Ala Pro Phe Gly Tyr Asp Tyr Ser Ala Gln Gly Glu Gly
100 105 110
Gly Gly Gly Ala Ala Ala Ala Gly Glu Gln Val Leu Ala Val
115 120 125
Asp Ala Gly Phe Asn Tyr Asp Lys Tyr Val Gly Ala Arg Lys Leu Arg
130 135 140
Gly Gly Ser Ser Thr Ala Gly Gly Glu Asn Asp Asp Glu Pro Phe Gly
145 150 155 160
Tyr Asp Tyr Lys Ala Pro Ser Ser Gly Ser Gly Thr Ala Ala Ser Thr
165 170 175
Thr Ala Arg Gly Val Gly Thr Gly Ala Thr Thr Thr Val Phe Phe His
180 185 190
Glu Glu Ala Val Arg Val Gly Glu Arg Leu Pro Phe Tyr Phe Pro Ala
195 200 205
Ala Thr Thr Ser Ala Leu Gly Phe Leu Pro Arg Arg Val Ala Asp Ser
210 215 220
Ile Pro Phe Thr Ala Ala Ala Leu Pro Ala Val Leu Ala Leu Phe Gly
225 230 235 240
Val Ala Pro Asp Thr Ala Glu Ala Ala Gly Met Arg Glu Thr Leu Arg
245 250 255
Thr Cys Glu Trp Pro Thr Leu Ala Gly Glu Ser Lys Phe Cys Ala Thr
260 265 270
Ser Leu Glu Ala Leu Val Glu Gly Ala Met Ala Ala Leu Gly Thr Arg
275 280 285
Asp Ile Ala Ala Leu Ala Ser Thr Leu Pro Arg Gly Gly Ala Pro Leu
290 295 300
Gln Ala Tyr Ala Val Arg Ala Val Leu Pro Val Glu Gly Ala Gly Phe
305 310 315 320
Val Ala Cys His Asp Gln Ala Tyr Pro Tyr Thr Val Tyr Arg Cys His
325 330 335
Thr Thr Gly Pro Ala Arg Ala Tyr Met Val Glu Met Glu Gly Asp Gly
340 345 350
Gly Gly Asp Gly Gly Glu Ala Val Thr Val Ala Thr Val Cys His Thr
355 360 365
Asn Thr Ser Arg Trp Asn Pro Glu His Val Ser Phe Lys Leu Leu Gly
370 375 380
Thr Lys Pro Gly Gly Ser Pro Val Cys His Leu Met Pro Tyr Gly His
385 390 395 400
Ile Val Trp Ala Lys Asn Val Lys Ser Ser Thr Ala
405 410